Agent's reference: 05-483-B

IN THE UNITED STATES RECEIVING OFFICE (RO/US)

In re Application of:)	
	Kyoung Dok YUN) Group Art Unit: TBA	
Serial No.:	10/560,512) Examiner: TBA	
Filed:	December 13, 2005)	
	ratus For Improving Reception tivity of Base Transceiver Station)))	

TRANSMITTAL LETTER

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sirs:

In regard to the above-identified application we are transmitting herewith the attached:

- 1) International Preliminary Report on Patentability.
- 2) CERTIFICATE OF MAILING BY "EXPRESS MAIL" UNDER 37 CFR § 1.10: The undersigned hereby certifies that this Transmittal Letter and the paper, as described hereinabove, are being deposited with the United States Postal Service with sufficient postage as "Express Mail Post Office to Addressee" in an envelope addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandra, Virginia, 22313-1450, on this 27th day of February, 2006, Express Mail No. EV757106496US.

Respectfully submitted,

Ву

Robert J. Irvine III Registration No. 41,865 Attorney for the Applicant(s)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference FE241484	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/KR2004/001852	International filing date (day/month/year) 23 July 2004 (23.07.2004)	Priority date (day/month/year) 24 July 2003 (24.07.2003)	
International Patent Classification (8th See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237		
Applicant UTStarcom Korea Limited			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).		
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.		
	In the attached sheets, any referer to the international preliminary re		ne International Searching Authority should be read as a reference r I) instead.
3.	This report contains indications re	elating to the following items	
	Box No. I	Basis of the report	
	Βοχ Νο. Π	Priority	
	Box No. ΠΙ	Non-establishment of opini applicability	on with regard to novelty, inventive step and industrial
	Box No. IV	Lack of unity of invention	
	Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement
	Box No. VI	Certain documents cited	
	Box No. VΠ	Certain defects in the inter-	national application
	Box No. VIII	Certain observations on the	international application
4.	The International Bureau will co not, except where the applicant n date (Rule 44bis .2).	mmunicate this report to designates an express request unde	gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but er Article 23(2), before the expiration of 30 months from the priority
			Date of issuance of this report 30 January 2006 (30.01.2006)
	The International Bure		Authorized officer
	34, chemin des Cole 1211 Geneva 20, Sw		Philippe Becamel
Facsi	mile No. +41 22 740 14 35		Telephone No. +41 22 338 70 90
Form	PCT/IB/373 (January 2004)		

COPY FOR IB

PATENT COOPERATION TREATY

From the

INTERNATIONAL SEARCHING AUTHORITY

RECEIVED 2 1 AUG 2004

	3 1	AUG 2001
PCT	'WHO	PCT

YOON, Jee Hong

Hannuri Bldg. 219 Naeja-dong, Chongno-gu, Seoul 110-053, Republic of Korea		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)	
		Date of mailing (day/month/year)	24 AUGUST 2004 (24.08.2004)
Applicant's or agent's file reference		FOR FURTHER ACTION	
FE241484			See paragraph 2 below
International application No. International filing date		(day/month/year)	Priority date(day/month/year)
PCT/KR2004/001852	23 JULY 2004 (23	3.07.2004)	24 JULY 2003 (24.07.2003)
International Patent Classification (IPC) IPC7 H04B 7/155	or both national classifica	ation and IPC	
Applicant			
UTStarcom Korea Limited et a	ıl 		
This opinion contains indications relations	eting to the following ite	me:	
Box No. I Basis of the opi			
Box No. II Priority	,		
	+ -6:-::+		and and industrial annihilities
Box No. III Non-establishn	ient of opinion with rega	ira to noveity, inventive	e step and industrial applicability

1.	This	opinion contain	s indications relating to the following items:
	\boxtimes	Box No. I	Basis of the opinion
		Box No. II	Priority
		Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
		Box No. IV	Lack of unity of invention
	x	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
		Box No. VI	Certain documents cited
		Box No. VII	Certain defects in the international application
		Box No. VIII	Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR

Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

JEON, Jong Seong

Telephone No. 82-42-481-5948



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/001852

Box No. I Basis of this opinion
 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing table(s) related to the sequence listing
b. format of material
in wirtten format
in computer readable form
c. time of filing/furnishing
contained in the international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
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4. Additional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR2004/001852

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty (N)	Claims 1-3 •	YES
	Claims NONE	NO
Inventive step (IS)	Claims NONE	YES
	Claims 1-3	NO
Industrial applicability (IA)	Claims 1-3	YES
	Claims NONE	NO

2. Citations and explanations:

1. Citations

D1 : US6125109 D2 : EP0632600 D3 : WO03026157

2. Explanations

Inventive step of the invention can be denied by one or a combination of two of above documents because of following reasons.

The invention descloses a transmission/reception apparatus that comprises a duplexer and a SAW filter and LNA and antennas. The object of the invention is to suppress transmission signals interference with the reception path by use of bandpass characteristics of the SAW filter.

In comparison with the documents D1 through D3, D1 discloses a transceiver apparatus comprising a SAW filter in order to eliminate or suppress out-of-band interference signals within the reception signal, then to enhance the reception sensibility in the transmission/reception apparatus. D2 and D3 also have similar technical idea to the invention.

So, it will not be difficult for a skilled person in the art to invent the present invention from the disclosure of the D1 through D3.